


REMARKS

All changes to claims 1 through 18 are to remove the multiple dependency of the original claims. No new matter has been added.

Favorable action on the merits of this application is respectfully requested.

Respectfully submitted  
for Applicant,

By:

  
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Attached: Marked-up Version of Claims Showing Changes

JJM:esd  
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DATED: December 7, 2001  
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SHOULD ANY OTHER FEE BE REQUIRED, THE PATENT AND TRADEMARK OFFICE IS HEREBY REQUESTED TO CHARGE SUCH FEE TO OUR DEPOSIT ACCOUNT 13-0410.

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS EXPRESS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF PATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231, NO.: EL 346 229 495 US

McGLEW AND TUTTLE, P.C.  
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BY:  DATE: December 7, 2001

MARKED - up CLAIMS

1. Device for the transdermal administration of an active compound, comprising a current generator and at least one pair of electrodes for application to a patient, one of which must be suitable for holding a vehicle  
5 containing the active compound, characterized in that said generator generates a one-way current between said electrodes which is modulated in amplitude by a modulator of a periodic nature.

2. Device according to Claim 1, characterized in that said modulator has an amplitude which can vary between zero and a maximum  
10 value.

3. Device according to Claim 1 [or 2] characterized in that the one-way current has a positive sinusoidal waveform.

4. Device according to Claim 1 [or 2] characterized in that the one-way current has a rectified sinusoidal waveform.

15 5. Device according to Claim 1 [or 2] characterized in that the one-way current has a half-sinusoidal waveform.

6. Device according to Claim 1 [or 2] characterized in that the one-way current has a triangular or sawtooth waveform.

20 7. Device according to Claim 1 [or 2] characterized in that the one-way current has a square waveform.

8. Device according to [one or more of the foregoing] Claims [5] 1, characterized in that the modulator has a waveform selected from the group comprising: a triangular waveform, a rectified sinusoidal waveform, a half-sinusoidal waveform or combinations thereof.

25 9. Device according to [one or more of the foregoing] Claims [5] 1, characterized in that the one-way current has a frequency of between 100 and 3000 Hz.

30 10. Device according to [one or more of the foregoing] Claims [5] 1, characterized in that the modulator has a frequency between 0.1 and 5 Hz and preferably between 0.5 and 1 Hz.

11. Device according to [one or more of the foregoing] Claims [5] 1, characterized in that the current applied between the electrodes has a

maximum value of 100 mA.

12. Method of administering an active compound by transdermal means, comprising the stages of:

- applying two electrodes, one of which is associated with a vehicle  
5 containing the active compound,
- generating a one-way current between the two said electrodes which is modulated in amplitude by a modulating signal of a periodic nature.

13. Method according to Claim 12, characterized in that said one-way current has a waveform selected from the group comprising: a rectified  
10 sinusoidal wave, a half-sinusoidal wave, a sawtooth wave, a triangular wave, a square wave, a positive sinusoidal wave, a train of pulses.

14. Method according to Claim[s] 12 [or 13], characterized in that said modulator has a waveform selected from the group comprising: a triangular  
15 waveform, a sawtooth waveform, a rectified sinusoidal waveform, a half-sinusoidal waveform or combinations thereof.

15. Method according to Claim[s] 12, [13 or 14], characterized in that said modulating signal has an amplitude which can be varied between zero and a maximum value.

16. Method according to [one or more of] Claim[s] 12 [to 15],  
20 characterized in that said one-way current has a frequency of between 100 and 3000 Hz.

17. Method according to [one or more of] Claim[s] 12 [to 16], characterized in that said modulating signal has a frequency of between 0.1 and 5 Hz and preferably between 0.5 and 1 Hz.

25 18. Method according to [one or more of the foregoing] Claim[s], 12, characterized in that the current between said electrodes varies between zero and a maximum value equal to 100 mA.

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